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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/024,433

DATE: 01/17/2002

TIME: 17:42:54

Input Set : N:\Crf3\RULE60\10024433.raw

Output Set: N:\CRF3\01172002\J024433.raw

1 <110> APPLICANT: Robert G. Korneluk et al.
2 <120> TITLE OF INVENTION: METHODS AND COMPOUNDS FOR MODULATING
3 MALE FERTILITY
4 <130> FILE REFERENCE: 07891/018002
5 <140> CURRENT APPLICATION NUMBER: 10/024,433
6 <141> CURRENT FILING DATE: 2001-12-18
7 <150> PRIOR APPLICATION NUMBER: 09/239,867
8 <151> PRIOR FILING DATE: 1999-01-29
9 <160> NUMBER OF SEQ ID NOS: 10
10 <170> SOFTWARE: FastSEQ for Windows Version 4.0
12 <210> SEQ ID NO: 1
13 <211> LENGTH: 1559
14 <212> TYPE: DNA

ENTERED

15 <213> ORGANISM: Homo sapiens

16 <220> FEATURE:

17 <221> NAME/KEY: misc_feature

18 <222> LOCATION: (1)...(1559)

19 <223> OTHER INFORMATION: n = A,T,C or G

20 <400> SEQUENCE: 1

W--> 21 gagacggttg acaagtccta tattcaagag aagataactt tgaacagttt cgaaggatct 60
22 aaaacgtatg tgtctgcaga catcaatnag gatgaagaat tagtanaaga gattaataga 120
23 tcaaaaacgt ttgctggctt tgcaggtggt gggcctgcct gggcatcggc gcgttggagg 180
24 agacgccctg gggggcctta gctgccctga agcggtagac aggtggcaac gtgggggctc 240
25 aggagttgac aaacacaaga aagcagcgcc gaattgcagg tttatccgca gcttttattt 300
26 tgaagacagt gccacgaaac ctgcaaatcc tgggtgtccca aatagtcaat accaagttga 360
27 aaaccatctg ggagaggaaa agcgttgtgc tttagacagg ccgtatgaga ctggtgcaga 420
28 ccggtctttg agagctggac aggtggtgga tagatcagac tccatacacc cgaggagccc 480
29 cgccatgcat agtgaagaag ctagataaca gtggtttcac aactggccag cctctgcccc 540
30 cttgaccccg agagagctgg ccagtgtctg gctgtactac acaggcactg atgaccaagt 600
31 gcagtgtctt tgttgtggcg gaaaactgaa aaactgggaa cctggtgatc gtgcctggtc 660
32 agaacacagg agacattttc ctaattgctt ctttattttg ggccacaacg ttaatatctg 720
33 aggtgaatct gatgttgaga gttctgatag gaatttctca aattcaacaa gttctccaag 780
34 gaatccatcc atgacgggtt atgaagccc gctcattact tttgggacat ggatgtactc 840
35 cgtcaacaaa gacagcttg caagagctgg attttatgct ataggtcaag aggataaagt 900
36 acagtgtctt cactgtggag gagggctagc caactggaag cccaaggaag atccttggga 960
37 acagcatgct aaatggtatc caggttgcaa atatctgcta gaagagaagg gacatgaata 1020
38 tataaacaaac attcatttaa ccggttcaact tgaggagact ctggtacaaa ctaccaagaa 1080
39 aacaccatca ctaactaaaa gaatcagtga taccatcttc cctaataccta tgctacaaga 1140
40 agctatacga atgggatttg atttcaagga cgtaaagaaa ataattggagg aaagaattca 1200
41 aacatctggg agcaactata aaacgcttga ggttcttgtt gcagatctag tgagcgctca 1260
42 gaaagacact acagaaaatg aattgaatca gacttcattg cagagagaaa tcagccctga 1320
43 agagccgcta aggcgtctgc aagaggagaa gctttgtaaa atctgcatgg acagatatat 1380
44 cgctgttggt tttattcctt gtggacatct ggtcacttgt aaacaatgtg ctgaagcagt 1440

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45      tgacagatgt cccatgtgca ggcgggttat tgatttcaag caaagagttt ttatgtotta      1500
46      atgtaactct acagtgggtg tgctatgttc ttattaccct gattaaatgt gtgatgtga      1559
48 <210> SEQ ID NO: 2
49 <211> LENGTH: 236
50 <212> TYPE: PRT
51 <213> ORGANISM: Homo sapiens
52 <400> SEQUENCE: 2
53      Met Thr Gly Tyr Glu Ala Arg Leu Ile Thr Phe Gly Thr Trp Met Tyr
54      1          5          10          15
55      Ser Val Asn Lys Glu Gln Leu Ala Arg Ala Gly Phe Tyr Ala Ile Gly
56      20          25          30
57      Gln Glu Asp Lys Val Gln Cys Phe His Cys Gly Gly Gly Leu Ala Asn
58      35          40          45
59      Trp Lys Pro Lys Glu Asp Pro Trp Glu Gln His Ala Lys Trp Tyr Pro
60      50          55          60
61      Gly Cys Lys Tyr Leu Leu Glu Glu Lys Gly His Glu Tyr Ile Asn Asn
62      65          70          75          80
63      Ile His Leu Thr Arg Ser Leu Glu Gly Ala Leu Val Gln Thr Thr Lys
64      85          90          95
65      Lys Thr Pro Ser Leu Thr Lys Arg Ile Ser Asp Thr Ile Phe Pro Asn
66      100         105         110
67      Pro Met Leu Gln Glu Ala Ile Arg Met Gly Phe Asp Phe Lys Asp Val
68      115         120         125
69      Lys Lys Ile Met Glu Glu Arg Ile Gln Thr Ser Gly Ser Asn Tyr Lys
70      130         135         140
71      Thr Leu Glu Val Leu Val Ala Asp Leu Val Ser Ala Gln Lys Asp Thr
72      145         150         155         160
73      Thr Glu Asn Glu Leu Asn Gln Thr Ser Leu Gln Arg Glu Ile Ser Pro
74      165         170         175
75      Glu Glu Pro Leu Arg Arg Leu Gln Glu Glu Lys Leu Cys Lys Ile Cys
76      180         185         190
77      Met Asp Arg Tyr Ile Ala Val Val Phe Ile Pro Cys Gly His Leu Val
78      195         200         205
79      Thr Cys Lys Gln Cys Ala Glu Ala Val Asp Arg Cys Pro Met Cys Ser
80      210         215         220
81      Ala Val Ile Asp Phe Lys Gln Arg Val Phe Met Ser
82      225         230         235
84 <210> SEQ ID NO: 3
85 <211> LENGTH: 1588
86 <212> TYPE: DNA
87 <213> ORGANISM: Homo sapiens
88 <400> SEQUENCE: 3
89      gaaaagggtgg acaagtccta ttttcaagag aagatgactt ttaacagttt tgaaggatct      60
90      aaaacttgtg tacctgcaga catcaataag gaagaagaat ttgtagaaga gtttaataga      120
91      ttaaaaactt ttgctaattt tccaagtggg agtcctgttt cagcatcaac actggcacga      180
92      gcagggtttc tttatactgg tgaaggagat accgtgcggg gctttagttg tcatgcagct      240
93      gtagatagat ggcaatatgg agactcagca gttggaagac acaggaaagt atcccaaat      300
94      tgcagattta tcaacggctt ttatcttgaa aatagtgccg cgagctctac aaattctggt      360
95      atccagaatg gtcagtacaa agttgaaaac tatctgggaa gcagagatca ttttgcctta      420

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96  gacaggccat ctgagacaca tgcagactat cttttgagaa ctgggcaggt tgtagatata      480
97  tcagacacca tatacccgag gaacctgccc atgtatagtg aagaagctag attaaagtcc      540
98  tttcagaact ggccagacta tgctcaccta accccaagag agttagcaag tgctggactc      600
99  tactacacag gtattggtga ccaagtgcag tgcttttgtt gtggtggaaa actgaaaaat      660
100  tgggaacctt gtgatcgtgc ctggtcagaa cacaggcgac actttcctaa ttgcttcttt      720
101  gttttgggcc ggaatcttaa tattcgaagt gaatctgatg ctgtgagttc tgataggaat      780
102  ttcccaaatt caacaaatct tccaagaaat ccatccatgg cagattatga agcacggatc      840
103  tttacttttg ggacatggat atactcagtt aacaaggagc agcttgcaag agctggattt      900
104  tatgctttag gtgaaggtga taaagtaaag tgctttcact gtggaggagg gctaactgat      960
105  tgggaagccca gtgaagaccc ttgggaacaa catgctaaat ggtatccagg gtgcaaatat     1020
106  ctgttagaac agaagggaca agaatatata aacaatatcc atttaactca ttcacttgag     1080
107  gagtgtctgg taagaactac tgagaaaaca ccatcactaa ctagaagaat tgatgatacc     1140
108  atcttccaaa atcctatggt acaagaagct atacgaatgg ggttcagttt caaggacatt     1200
109  aagaaaataa tggaggaaaa aattcagata tctgggagca actataaatc acttgagggt     1260
110  ctggttgtag atctagttaa tgctcagaaa gacagtatgc aagatgagtc aagtcagact     1320
111  tcattacaga aagagattag tactgaagag cagctaaggc gcctgcaaga ggagaagctt     1380
112  tgcaaaatct gtatggatag aaatattgct atcgtttttg ttccttggtg acatctagtc     1440
113  acttgtaaac aatgtgctga agcagttgac aagtgtccca tgtgctacac agtcattact     1500
114  ttcaagcaaa aaatttttat gtcttaatct aactctatag taggcatgtt atgttgttct     1560
115  tattaccctg attgaatgtg tgatgtga      1588
117 <210> SEQ ID NO: 4
118 <211> LENGTH: 236
119 <212> TYPE: PRT
120 <213> ORGANISM: Homo sapiens
121 <400> SEQUENCE: 4
122  Met Ala Asp Tyr Glu Ala Arg Ile Phe Thr Phe Gly Thr Trp Ile Tyr
123      1          5          10          15
124  Ser Val Asn Lys Glu Gln Leu Ala Arg Ala Gly Phe Tyr Ala Leu Gly
125      20          25          30
126  Glu Gly Asp Lys Val Lys Cys Phe His Cys Gly Gly Gly Leu Thr Asp
127      35          40          45
128  Trp Lys Pro Ser Glu Asp Pro Trp Glu Gln His Ala Lys Trp Tyr Pro
129      50          55          60
130  Gly Cys Lys Tyr Leu Leu Glu Gln Lys Gly Gln Glu Tyr Ile Asn Asn
131      65          70          75          80
132  Ile His Leu Thr His Ser Leu Glu Glu Cys Leu Val Arg Thr Thr Glu
133      85          90          95
134  Lys Thr Pro Ser Leu Thr Arg Arg Ile Asp Asp Thr Ile Phe Gln Asn
135      100         105         110
136  Pro Met Val Gln Glu Ala Ile Arg Met Gly Phe Ser Phe Lys Asp Ile
137      115         120         125
138  Lys Lys Ile Met Glu Glu Lys Ile Gln Ile Ser Gly Ser Asn Tyr Lys
139      130         135         140
140  Ser Leu Glu Val Leu Val Ala Asp Leu Val Asn Ala Gln Lys Asp Ser
141      145         150         155         160
142  Met Gln Asp Glu Ser Ser Gln Thr Ser Leu Gln Lys Glu Ile Ser Thr
143      165         170         175
144  Glu Glu Gln Leu Arg Arg Leu Gln Glu Lys Leu Cys Lys Ile Cys
145      180         185         190
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146 Met Asp Arg Asn Ile Ala Ile Val Phe Val Pro Cys Gly His Leu Val
147      195      200      205
148 Thr Cys Lys Gln Cys Ala Glu Ala Val Asp Lys Cys Pro Met Cys Tyr
149      210      215      220
150 Thr Val Ile Thr Phe Lys Gln Lys Ile Phe Met Ser
151      225      230      235
153 <210> SEQ ID NO: 5
154 <211> LENGTH: 500
155 <212> TYPE: DNA
156 <213> ORGANISM: Homo sapiens
157 <220> FEATURE:
158 <221> NAME/KEY: misc_feature
159 <222> LOCATION: (1)...(500)
160 <223> OTHER INFORMATION: n = A,T,C or G
161 <400> SEQUENCE: 5
162 caactacaca cgtgtgtgtg cgcgtgtgta taaaacacag tgcactaata ctcagccttt      60
163 aaaaaaaatg ccacttgcaa caacgtagat ggagctggac gatatcatgc taaaattatg      120
164 caaagtgaaa caagcaciaa aaagaacgag acacgggagc ggggcacgag gtgctcactg      180
W--> 165 ngcaagcgcc cactccaccg cgtgggttcc agctggagggc tgggagcggt ngtggcttcc      240
166 tcttttcttg ctgacccttc ggagctctgg gaagtggctg caccttggcg gctccccaga      300
167 gcgcgcgggtg ctaatcgtgg gtcgtcagcc tgggtggctg ggcccggctt agggcagggg      360
168 ttggcatttc caatggtagg gggctcggac cgtccctccg cgggaccctc ccgttgggac      420
169 aaggccgata gcctggggcg ttggagccgc tatcctggcg cgagacgggt gacaagtctt      480
170 atattcaaga gaagataact
171      500
172 <210> SEQ ID NO: 6
173 <211> LENGTH: 67
174 <212> TYPE: PRT
175 <213> ORGANISM: Artificial Sequence
176 <220> FEATURE:
177 <223> OTHER INFORMATION: Based on Cydia pomonella and Orgyia pseudotsugata
178 <221> NAME/KEY: VARIANT
179 <222> LOCATION: (1)...(67)
180 <223> OTHER INFORMATION: Xaa = Any Amino Acid
181 <221> NAME/KEY: VARIANT
182 <222> LOCATION: (1)...(67)
183 <223> OTHER INFORMATION: Xaa = Any Amino Acid
184 <400> SEQUENCE: 6
W--> 185 Xaa Xaa Xaa Arg Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
186      1      5      10      15
W--> 187 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Gly Xaa Xaa Xaa Xaa Xaa Xaa Xaa
188      20      25      30
W--> 189 Xaa Xaa Xaa Xaa Cys Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
190      35      40      45
W--> 191 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa His Xaa Xaa Xaa Xaa Xaa Xaa Cys
192      50      55      60
W--> 193 Xaa Xaa Xaa
194      65
196 <210> SEQ ID NO: 7
197 <211> LENGTH: 68

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Input Set : N:\Crf3\RULE60\10024433.raw
Output Set: N:\CRF3\01172002\J024433.raw

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198 <212> TYPE: PRT
199 <213> ORGANISM: Artificial Sequence
200 <220> FEATURE:
201 <223> OTHER INFORMATION: Based on Cydia pomonella and Orgyia pseudotsugata
202 <221> NAME/KEY: VARIANT
203 <222> LOCATION: (1)...(68)
204 <223> OTHER INFORMATION: Xaa = Any Amino Acid
205 <221> NAME/KEY: VARIANT
206 <222> LOCATION: (1)...(68)
207 <223> OTHER INFORMATION: Xaa = Any Amino Acid
208 <400> SEQUENCE: 7
W--> 209      Xaa Xaa Xaa Arg Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
      210      1              5              10              15
W--> 211      Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Gly Xaa Xaa Xaa Xaa Xaa Xaa
      212              20              25              30
W--> 213      Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
      214              35              40              45
W--> 215      Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa His Xaa Xaa Xaa Xaa Xaa Xaa
      216              50              55              60
W--> 217      Cys Xaa Xaa Xaa
      218      65
220 <210> SEQ ID NO: 8
221 <211> LENGTH: 69
222 <212> TYPE: PRT
223 <213> ORGANISM: Artificial Sequence
224 <220> FEATURE:
225 <223> OTHER INFORMATION: Based on Cydia pomonella and Orgyia pseudotsugata
226 <221> NAME/KEY: VARIANT
227 <222> LOCATION: (1)...(69)
228 <223> OTHER INFORMATION: Xaa = Any Amino Acid
229 <221> NAME/KEY: VARIANT
230 <222> LOCATION: (1)...(69)
231 <223> OTHER INFORMATION: Xaa = Any Amino Acid
232 <400> SEQUENCE: 8
W--> 233      Xaa Xaa Xaa Arg Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
      234      1              5              10              15
W--> 235      Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Gly Xaa Xaa Xaa Xaa Xaa Xaa
      236              20              25              30
W--> 237      Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa
      238              35              40              45
W--> 239      Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa His Xaa Xaa Xaa Xaa Xaa Xaa
      240              50              55              60
W--> 241      Xaa Cys Xaa Xaa Xaa
      242      65
244 <210> SEQ ID NO: 9
245 <211> LENGTH: 70
246 <212> TYPE: PRT
247 <213> ORGANISM: Artificial Sequence
248 <220> FEATURE:
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VERIFICATION SUMMARY

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Input Set : N:\Crf3\RULE60\10024433.raw

Output Set: N:\CRF3\01172002\J024433.raw

L:22 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
 L:165 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
 L:185 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
 L:187 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
 L:189 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
 L:191 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
 L:193 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
 L:209 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
 L:211 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
 L:213 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
 L:215 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
 L:217 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
 L:233 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
 L:235 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
 L:237 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
 L:239 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
 L:241 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
 L:257 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
 L:259 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
 L:261 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
 L:263 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
 L:265 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
 L:281 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
 L:283 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
 L:285 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10